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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|----------------------------------|----------------------|---------------------|------------------|
| 10/571,741 | 10/19/2006 | David R. Forester | 3262-01 | 1220 |
| | 7590 05/29/200 DL CORPORATION | EXAMINER | | |
| | ET CLERK, PATENT | HINES, LATOSHA D | | |
| WICKLIFFE, C | | | ART UNIT | PAPER NUMBER |
| | | | 1797 | |
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| | | | 05/29/2009 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | Applicat | tion No. | Applicant(s) | |
|---|--|--|---|---|-------------|
| Office Action Summary | | 10/571, | 741 | FORESTER ET A | .L. |
| | | Examine | er | Art Unit | |
| | | LATOSH | IA HINES | 1797 | |
| Period fo | - The MAILING DATE of this commun r Reply | ication appears on th | ne cover sheet with th | e correspondence ac | dress |
| A SHO WHIC - Exten after 9 - If NO - Failur Any re | DRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE M sions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comr period for reply is specified above, the maximum st e to reply within the set or extended period for reply sply received by the Office later than three months d patent term adjustment. See 37 CFR 1.704(b). | IAILING DATE OF T of 37 CFR 1.136(a). In no enunication. atutory period will apply and will, by statute, cause the ap | THIS COMMUNICAT event, however, may a reply b will expire SIX (6) MONTHS f oplication to become ABANDO | ION. e timely filed rom the mailing date of this coned (35 U.S.C. § 133). | |
| Status | | | | | |
| 2a)⊠ 3)□ | Responsive to communication(s) file This action is FINAL . Since this application is in condition closed in accordance with the pract | 2b)⊡ This action is for allowance excep | non-final. ot for formal matters, | | e merits is |
| Disposition | on of Claims | | | | |
| 5)□ 6)⊠ 7)□ 8)□ | Claim(s) <u>1-17</u> is/are pending in the ala) Of the above claim(s) is/ala Claim(s) is/ala Claim(s) is/are allowed. Claim(s) <u>1-17</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction Papers | re withdrawn from c | | | |
| | The specification is objected to by th | e Evaminer | | | |
| 10) 🔲 7 | The drawing(s) filed on is/are Applicant may not request that any obje Replacement drawing sheet(s) including The oath or declaration is objected to | a) ☐ accepted or bection to the drawing(s) the correction is requ | be held in abeyance. ired if the drawing(s) is | See 37 CFR 1.85(a). objected to. See 37 C | , , |
| Priority u | nder 35 U.S.C. § 119 | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | |
| 2) Notice 3) Inform | (s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Fation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date | PTO-948) | 4) Interview Summ Paper No(s)/Ma 5) Notice of Inform 6) Other: | | |

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DETAILED ACTION

1. This is the final Office action based on the 10/571741 application filed on March 13, 2006.

2. Claims 1-17 are pending and have been fully considered.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over LAL (EP 0626442).

With respect to claims 1-17 LAL et al. discloses a major amount of a fatty carboxylic acid ester composition from the transesterification of at least one naturally occurring triglyceride (rapeseed oil) (page 4 lines 10-15) and a pour point depressant. The alcohol utilized in forming the transesterified esters are an aliphatic group that contains from 1 to about 24 carbon atoms such as methyl alcohol (page 4 lines 32-36). The pour depressant comprises one or more esterified copolymer of an alpha-olefin or styrene and an alpha, beta-unsaturated monocarboxylic or dicarboxylic acid or maleic anhydride, wherein the copolymer is esterified with a mixture of a relatively high molecular weight alcohol (at least 8 carbon atoms) and a relatively low molecular weight alcohol (no more than 7 carbon atoms). The ratio of the high molecular weight alcohol to low molecular

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weight alcohol is within the range of from 2:1 to 9:1 (page 7, line 1- page 8, line 54). The discovery of an optimum value of a known result effective variable, without producing any new or unexpected results, is within the ambit of a person of ordinary skill in the art. See *In re Boesch*, 205 USPQ 215 (CCPA 1980) (See MPEP § 2144). The pour point depressant is an ester of a carboxy-containing interpolymer, having a reduced specific viscosity of from about 0.5 to about 2 (page 7 lines 3-5). The interpolymerizable comonomers include methyl methacrylate (page 8 lines 38-40). The carbonyl polyamino groups include those derived from polyamino compounds having one primary or secondary amino group (page 8 lines 4-5). The fuel composition comprises a major amount of liquid fuel wherein the fuel comprises a petroleum distillate and diesel fuel (page 2 lines 6-10 and claim 14).

Response to Arguments

- 5. Applicants' arguments filed January 27, 2009 have been fully considered but they are not persuasive.
- 6. Applicants argued the reference applied under 35 USC 103, LAL (EP 0626442) fails to explicitly or implicitly teach the specific average carbon length of 9.8 to 11.7 on a weight % basis. The Examiner disagrees. LAL discloses the claimed invention except for average carbon length. However it would have been obvious to one having ordinary skill in the art at the time the invention was made to have varied the average carbon chain lengths since it was known in the art that using the same mixtures would have an average carbon length falling within the realm of the presently claimed average carbon

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length. Applicants set forth on page 6 of remarks mixtures of alcohols used to esterify the copolymer which fall within the claimed range, listed below.

| Example in Lal | Average Carbon Length |
|-----------------------------------|-----------------------|
| B-1, B-2, B-3, B-4, B-5, B-6, B-7 | 14.1 |
| B-8 | 11.8 |
| B-9 | 11.7 |
| B-10 | 14.8 |
| B-11 | 7.9 |

7. The examiner is of the position that the average carbon length of 11.7 set forth in Example B-9 of LAL does not differ from the average carbon chain length of 11.7 of the claims. Applicants further argue that the Examples in the specification demonstrate superior performance in the form of lower cold filter plugging points with copolymers having average carbon chain lengths within the claimed range. This is not deemed to be persuasive because, as set forth above, LAL sets forth an example with the claimed average carbon chain length (11.7) for copolymer component B. Further, the results in the specification are not commensurate in scope with the degree of protection sought by the claims, that of any and all such "esterified copolymer of an alpha-olefin or styrene and an alpha, beta-unsaturated monocarboxylic or dicarboxylic acid or anhydride".

Conclusion

8. **THIS ACTION IS MADE FINAL.** Applicants are reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to LATOSHA HINES whose telephone number is 571-270-5551. The examiner can normally be reached on Monday thru Thursday from 8 a.m. to 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on 571-272-1444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Ellen M McAvoy/

Primary Examiner, Art Unit 1797

/LATOSHA HINES/ Examiner, Art Unit 1797